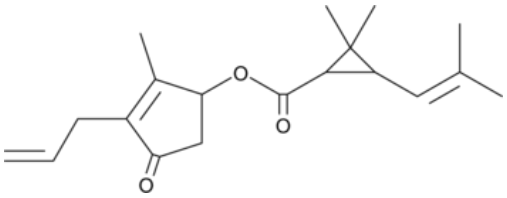
Product Data Sheet

Product Name: Allethrin
Cat. No.: GC40476

Chemical Properties

Cas. No.	584-79-2		
SMILES	C/C(C)=C/C1C(C)(C)C1C(OC2C(C)=C(CC=C)C(C2)=O)=O		
Formula	C19H26O3	M.Wt	302.4
Solubility	Chloroform: Slightly Soluble	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Allethrin is a pyrethroid insecticide and modulator of voltage-gated sodium channels (NaV). It delays channel deactivation in cockroach giant axons when used at a concentration of 1 μM. Allethrin is 100-fold more potent at insect than rat NaV1.8 channels expressed in Xenopus oocytes. It decreases egg production by and is lethal to mosquitoes (LC50 = 0.01%). Allethrin induces production of reactive oxygen species (ROS), lipid peroxidation, and apoptosis in rat primary Leydig cells. In vivo, the smoke of an allethrin-based mosquito coil increases levels of the hepatic enzymes ALT and AST and induces hepatocyte apoptosis as well as emphysema and lung hyperplasia in mice.

Caution: Product has not been fully validated for medical applications. For research use only.
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